

6612-18  
Serial No.: 10/669,436  
Filed: September 25, 2003

### REMARKS

Claims 1-4 are pending in the above-identified application. By this Amendment, the Applicant has amended claim 1, cancelled claims 2-4, and added claims 5-29. The newly added claims are supported by the application as originally filed, and do not introduce new matter.

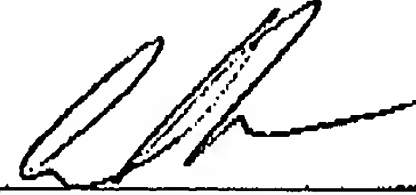
Particularly, support for the electrode features of claim 5, 21, 22, and 23 is provided at page 4, lines 14-16 and Figures 3a-3c. Support for the dielectric layer feature of claim 5, 21, 22, and 23 is provided at page 4, lines 1-7. Support for claim 6 is provided at page 5, lines 1-2, which discusses the real-time sensing of stress. Support for claim 7 is provided at page 3, lines 8-10, which discusses critical electric field. Support for claims 8-9 is provided at page 4, lines 8-10, which discusses use of silica stabilized dielectric films. Support for claim 10 is provided at page 3, lines 14-15, which discusses the reversible nature of conductivity. Support for claim 11 is provided at page 3, lines 28-30, which discusses the shift in the critical electric field with the application of stress. Support for claim 12 is provided at page 4, lines 12-14, which discusses array of sensors. Support for claim 13 is provided at page 4, lines 14-21 and Figures 3a-3c, which discusses and depicts various layouts with regard to the electrodes and the dielectric layers/sensing material. Support for claims 14-15 is provided at page 5, lines 25-30, which discusses using conductive bodies and conductive sub-layers as a ground electrode. Support for claim 16 is provided at page 4, lines 17-19 and Figure 3b, which discusses/depicts an array of sensors. Support for claim 17-18 is provided at page 4, lines 25-29, which discusses/depicts laterally spaced electrodes. Support for claims 19, 20, and 21 is provided at page 5, lines 27-30, 3-5, and 10-12, respectively, which discuss the composition of the electrodes and dielectric materials. Support for claims 24-29 is provided at page 4, line 22-page 5, line 21.

Accordingly, entry of the amendments to claim 1 and newly added claims 5-29 is respectfully requested.

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To expedite the prosecution, the Examiner is invited to contact the Applicant's undersigned representative at 212-895-2905.

Respectfully submitted,

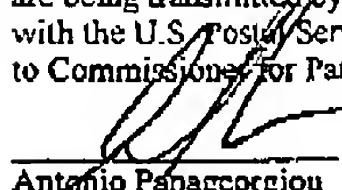


Date: February 8, 2005

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I hereby certify that this paper and any accompanying papers referenced herein are being transmitted by Facsimile to the USPTO 703-872-9306 or deposited this date with the U.S. Postal Service as First Class Mail with sufficient postage addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

  
Antonio Papageorgiou

February 8, 2005  
Date